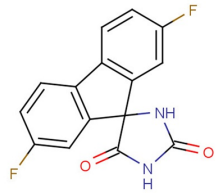
Data Sheet (Cat.No.T15568)

TargetMol
A DRUG SCREENING EXPERT

Imirestat

Chemical Properties



CAS No.:	89391-50-4
Formula:	C15H8F2N2O2
Molecular Weight:	286.23
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Imirestat is an aldose reductase inhibitor. It is used for the treatment of diabetes.
Targets(IC_{50})	Others: None
In vivo	Imirestat (1 mg/kg) improves nerve conduction velocity. However, it is without effect upon the resistance to hypoxic conduction blockade or the deficit in insulin-stimulated oubain-sensitive ATPase activity.

Solubility Information

Solubility	DMSO: 250 mg/mL (873.42 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.494 mL	17.468 mL	34.937 mL
5 mM	0.699 mL	3.494 mL	6.987 mL
10 mM	0.349 mL	1.747 mL	3.494 mL
50 mM	0.07 mL	0.349 mL	0.699 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Carrington AL, et al. Aldose reductase inhibition with imirestat-effects on impulse conduction and insulin-stimulation of Na+/K(+)-adenosine triphosphatase activity in sciatic nerves of streptozotocin-diabetic rats. Diabetologia. 1991 Jun;34(6):397-401.

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Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481